Online Experiments

Sönke Ehret CESS

Experimental Methods Lab Trinity 2017

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- More representative samples (e.g. Krupnikov and Levine 2014, Mutz 2011, but Barabas and Jerit 2010)

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 - vs other modes of surveys
 - vs traditional lab experiments

WHY ONLINE (VS LAB)?

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- Lower cost per subjects
 - vs other modes of surveys
 - vs traditional lab experiments
- Revolving subject pool

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WHY NOT ONLINE?

- Difficulty in controlling environment
 - Clifford and Jerit (2015)
 - Berinsky, Margolis, and Sances (2014)
- Need to be careful about fraud?
 - How to prevent one person take the same experiment twice?
 - How to know that the subjects are real (c.f. bots, multiple accounts)?
- Privacy concerns
- Technical requirements, e.g. mobile devices vs. desktop, browser type etc.

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What do you need to run online experiments?

- Method of subject recruitment and payment system
- Webpage
 - Survey for non-interactive studies(e.g. Qualtrics)
 - Virtual lab for interactive experiments (e.g. Otree, Nodegame)

Programming Online Experiments

- Qualtrics
- Randomization, Embedded Data and Panels
- Advanced Experiments and Customization
- Recruiting Subjects with Mturk

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Survey Software Research Tool

Survey Software Research Tool

Questionnaires

Survey Software Research Tool

- Questionnaires
- Panels and Longitudinal Studies
 - Sampling

Survey Software Research Tool

- Questionnaires
- Panels and Longitudinal Studies
 - Sampling
- Privacy protection sufficient for non-medical IRB. Standard version not HIPAA-certified.
- No programming (on surface)
- Easy distribution

Accessing Qualtrics

- CESS maintains limited number of licenses
- www.qualtrics.com
- Free trial account, but has limits (e.g, cannot export dataset!)
- Alternatives: surveymonkey, limesurvey
- No limits for number of respondents, surveys
- Technical limits though.

Resources

- Qualtrics Support: www.qualtrics.com/support
- Email Qualtrics Support: support@qualtrics.com
- http://sites.cognitivescience.co/qualtrics/

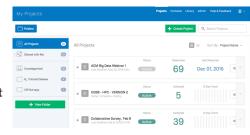
Navigating within Qualtrics

Navigating within Qualtrics

Projects: Contains the survey questionnaires

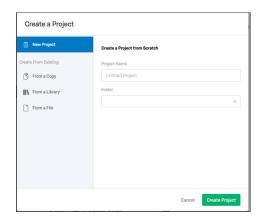
Navigating within Qualtrics

- Projects: Contains the survey questionnaires
- Contacts: A spreadsheet used for survey distribution to a panel.
 - Sampling
 - Researcher-defined values
 - Can be populated by subject responses
- Library: Contains saved questions, images, messages, and other material to be shared across surveys



CREATE A PROJECT

- New Project
- Existing Project
 - From a Copy
 - From a Library
 - From a File



Question

An input and output field with several options for display. Allows for choice randomization, choosing default choices, skip/carry on/display logic and Javascript customization.

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Section of questions that are placed together in the survey to better organize the order and presentation of questions. Question order within a block can be randomized. Can loop through the same question over database fields within a block. Set look of "Next" and "Previous" button globally on Block level

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Survey Flow

The order in which the survey appears on the block level. Can add branching, embedded data, randomization, data fields from web services (RSS), authenticator, conjoint etc. to change the order and logic of the survey Blocks.

Programming an example survey

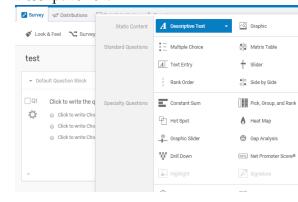
CREATING A CONSENT FORM

- Procedures
- Risk / Discomforts
- Benefits
- Confidentiality
- Compensation
- Participation
- Questions about the Research
- Agreement

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select "Q1" \rightarrow Change Question Type \rightarrow Descriptive Text



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SKIP LOGIC AND CONDITIONALS

Add a second question.

Choose "Multiple Choice" \rightarrow Single Answer, Horizontal.

- Add two answers: "Yes" and "No"
- Choose "Add Skip Logic"



Set

that answer to "no" \rightarrow leads to survey end

Participation in this study is voluntary. You may refuse to participate or withdraw at any time without penalty, by closing the browser window. For questionnaires or surveys, you have the right to skip or not answer any questions you prefer not to answer. However, you will not be paid unless you finish the survey questionnaire.

- Do you want to participate?

 Q61
 - yes
 - 247
 - If no Is Selected, Then Skip To End of Survey

Adding Questions

Question Types

- Descriptive Text
- Text Entry
- Graphic
- Multiple Choice
- Matrix Table

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Responses Types

- Number of Choices
- Display of Answers
- Positioning
- Forced Response
- Other Validation Options

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Add a one-choice draggable bar slider on [0,100] with grid lines set to 20. Label the question and choice texts with *Choose a tax rate*. Set default choice to 50. Allow for "Not Applicable" answer and change its text into "Refuse to answer". Remove scale point labels on top of slider. Force the response.

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DISPLAY LOGIC

Add two text entry questions:

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First Question

Why did you lower the tax rate?

→ Display Logic: Tax rate is lower than 50. Click "In Page"



Second Question

Why did you increase the tax rate?

→ Display Logic: Tax rate is higher than 50. Click "In Page"



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BLOCKS

Create three new blocks.

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First Block

Enter Multiple choice, two options: 8 out of 10 US citizens prefer taxes
higher [use italics] than 50% Do you wish to reconsider you
choice? "Yes" or "No"

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lower [use italics] than 50% Do you wish to reconsider you
choice? "Yes" or "No"

Third Block

Enter Likert scale, single answer, one statement. Use automatic scale points. Label choice text: I like to conform with others

Survey Flow - Randomizer

- lack Survey Flow
 ightarrow Add
 ightarrow Randomizer below Default Question Block
- Orag Block 1 and Block 2 under the Randomizer using "Move".
- Set the Randomizer to "Randomly present 1 element". Select "Evenly present elements"

Survey Flow - Randomizer

- ② Drag Block 1 and Block 2 under the Randomizer using "Move".
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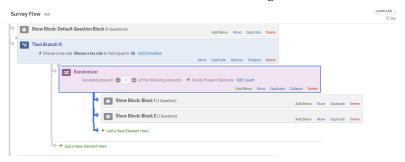


Survey Flow - Branch Logic

- Survey Flow → Add → Branch Logic below Default Question Block - above Randomizer
- **2** Add Condition \rightarrow Choose a Tax rate \rightarrow Not Equal to 50.
- Move Randomizer under Branch Logic

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Save the Flow and test your survey using "Preview Survey"

FIELDS AND EMBEDDED DATA

Embedded Data

Embedded Data is any extra information you would like recorded in addition to the question responses. Embedded Data consists of a field and a value. The field is the name of your variable (e.g., Gender, State, Status). The value is what your field will be set to in your data. ED can have multiple values (e.g., a field called Status might have a value of either Screened Out, or Good Complete).

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- The social media site a respondent has come from
- The condition a respondent was assigned to in a research study
- Previously gathered information from a contact list so that data will be available for analysis.

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FIELDS AND EMBEDDED DATA

Piped Text

Qualtrics stores internal information during the survey. This information can be *displayed* to subjects. Example

- Previous survey responses, after page break or from previous Block
- Geo IP, date and time
- Default information from contact list fields
- Loops
- Embedded Data

Some of these elements can also be changed with input fields. But we need to know Javascript for that.

PIPED TEXT

- Modify the "8 out of 10 US citizens prefer" Question in Block 1 and Block 2 to show the previously chosen tax rate.
- Text Field \rightarrow Piped Text \rightarrow Survey Question \rightarrow Q4 Choose a Tax Rate \rightarrow Q4 Choose a Tax Rate:

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• In "Survey Flow" create "Embedded Data" under the first Block and move the "Embedded Data" section to the top of the flow.

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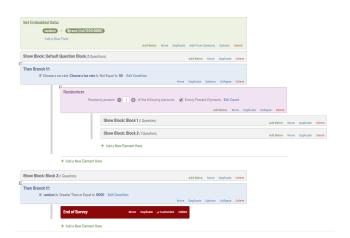
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- Field name:random
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- Create a Branch Logic under Block 3 (conformity question). It has the condition "If random Greater or Equal than to 9000".
- Under the Branch Logic create a new "End of Survey Element"
- Save Flow

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EMBEDDED DATA



CUSTOMIZE THE END OF SURVEY MESSAGE

- ullet Navigate to Library o Messages Library o New Message
- Select Message Type "End of Survey Message"
- Give it a title ("Win 10\$") and text → "create message"
- In Survey Flow, navigate to end of survey message, choose custom message

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- In 10% of cases, subjects will receive now a message on \$10 extra payment.

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- Look and Feel
 - Question Separator
 - Progress Bar
 - To Insert a customized skin
 - Header / Footer

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- SMS. New feature that allows sending and receiving questions and responses via messaging. Needs to be manually enabled by CESS

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- Social Media
- Offline app. Works on smartphone or tablet without internet.
- QR code:alternative to anonymous link

EMAILS

Email Survey from Qualtrics Mailer

- Upload List or Enter Contacts
- Maximum Number of Emails = 10.000 per week
- Adjustable: From Name, Reply-to Email, Subject
- Not Adjustable: From Address
- Show Advanced Options → Anonymous

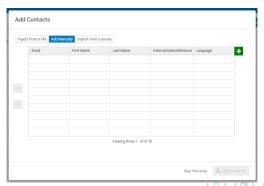
Reminders & Thank you Notes

CONTACTS

- Contacts → Create Contact List
- Import or create manually
- Send emails to contact list
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CONTACTS

- Track History of Participation
- Trace Bounce Backs
- Smaller Subsets to Manage
- Reuse list of people for automated Reminders & Thank you notes
- Individual owner specific, therefore are not shared with collaboration

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LINKS WITH DATA FIELDS

- Can feed customized information from survey distribution link into embedded data
- Works at start of survey
 - Retrieve anonymous link from your survey, e.g. https://nyu.qualtrics.com/SE/?SID = SV_5mVtvXJawZoF49L
 - Append to link a data field using ? and the value using "=". Use using & to attach additional fields:
 - https://nyu.qualtrics.com/SE/?SID = SV_5mVtvXJawZoF49L&field = value
 - Under "Survey Flow" create embedded data field at beginning of survey. Field name: "field". Leave "value" open
 - Subjects using the modified link will set "field" to "value"

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http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8t0&



http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8tp&



http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8D&Source



http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8D&



http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8D&Source



http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8D&Source=Facebook



http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8D&



http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8D&Source



http://survey.qualtrics.com/SE/?SID=SV_SV_4UPDW34d8D&Source=Facebook

Survey Flow CSAT Q1



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Advanced uses of Embedded Data

- Use Authenticator under Survey Flow to set login information for external websites. Retrieve data fields from those websites, e.g. facebook
- Use Webservice under Survey Flow to access rectangular XML or RSS fields from an external URL during the survey.
- Use end-of survey auto-forward to pass information to another survey (or same survey) via link fields
- Loops

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GET YOUR DATA

Rectangular

- Data & Analysis
- Export & Import → Export Data with Legacy Format
- "More Options"

Reporting

- Reports
- Real Time
- Send via email or link: feedback

LOOP & MERGE

- Loop & Merge
- Use on Block level

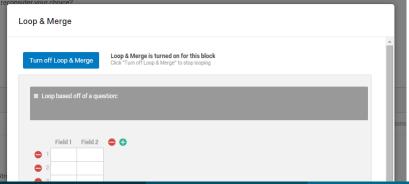
Loop & Merge

- Loop & Merge
- Use on Block level
- Idea: loop through "Fields" repeatedly. Each Field represents a column, loop is over values (rows).
- Can randomize number of loops and number of elements from loop
- Have to pre-populate loop or draw values from internal fields



Loop & Merge

- For the last Block of our survey (the one with conformity question), Block Options → Loop&Merge
- Enter three values of your choice into "Field 1", one per row.
- In the question choice descriptive text, use piped text to set the content from Field 1:\${lm://Field/1}



- Javascript
- Programming a multiplayer experiment
- Mturk

Javascript

- Programming language used in web production
- Large variety of functions and libraries
- Interacts with HTML and CSS

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SAVING TO AND RETURNING FROM ED

value: internal javascript variable

name: name of the embedded data field

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use Qualtrics.SurveyEngine.X where X is...
addEmbeddedData('name', value); adds embedded data.
setEmbeddedData('name', value); sets the embedded data.
getEmbeddedData('name'); returns the embedded data.

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use Qualtrics.SurveyEngine.X where X is...
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getEmbeddedData('name'); returns the embedded data.
```

Example:

```
Qualtrics.SurveyEngine.setEmbeddedData("field", variable);
save variable in embedded data field
```

Using internal Qualtrics Fields

Quick access to embedded data:

var myData ="\$e://Field/myEmbeddedData";

Will access myEmbeddedData as string even if it is a numeric.

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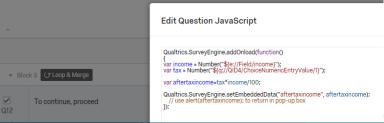
To transform into number, use:

```
var myData = Number("$e://Field/myEmbeddedData") ;
```

EXAMPLE

Save chosen tax rate and calculate after tax income.

- Under Survey flow generate two new embedded data fields:income=2000 and aftertaxincome. Leave value of aftertaxincome empty
- Q10 "Answer the following [conformity] question". Add another question on top of it. Add a pagebreak between both questions
- In that question, click "Add Javascript"
- Enter the following code:



Add an output of aftertaxincome Test your survey

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There is no built-in feature for random round payoff selection.

Store each round's payoff as a separate embedded data field.

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- After storing all payoffs, within javascript we return payoffs in an array.
- Then, randomly sort the array order using ARRAYNAME.sort(function()
 { return 0.5 Math.random() });.

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- Store each round's payoff as a separate embedded data field.
- 2 Must create separate embedded data fields for the randomly selected payoffs.
- After storing all payoffs, within javascript we return payoffs in an array.
- **5** Save choice of elements from sorted array.

Pay two out of three rounds:

```
var pay1 = "${e://Field/pay1}";
var pay2 = "${e://Field/pay2}";
var pay2 = "${e://Field/pay3}";
var array = [pay1, pay2, pay3];
array.sort( function() { return 0.5 - Math.random() } );
Qualtrics.SurveyEngine.setEmbeddedData("ranselect1", array[1]);
Qualtrics.SurveyEngine.setEmbeddedData("ranselect2", array[2]);
```

JAVASCRIPT LIBRARIES

- Can add libraries with pre-built javascript functions
- ullet Go to "Look & Feel" o Advanced o Header
- To embed an external library, the library needs to be hosted externally.

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Example: embed the following code into Header (source) to install MathJags package, hosted on cdn.mathjax.org:



SUBJECT RECRUITMENT

CESS Online

```
(https://cess.nuff.ox.ac.uk/cess-online)
```

- Amazon Mechanical Turk
- Prolific Academic
- Respondi.com
- Survey Sampling International (SSI)
- Yougov.com
- Qualtrics.com
- Your own effort
 - Facebook
 - Online message boards

MTURK



- Amazon Mechanical Turk: Online worker platform for small tasks, hosted by Amazon Web Services
- HIT: Human Intelligence Task
- Batch: A Group of Hits
- Qualification: Researcher-assigned parameter to worker



Subject Recruitment: MTurk

- https://www.mturk.com/
- Online labour marketplace
- Who are the workers?
 - Only in the US and India, includes also English speaking countries such as UK and Ireland since recent
 - Worker population in India is a legacy component

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LINKING WITH QUALTRICS

Manual Completion Code

The HIT links to the Qualtrics survey. The HIT is considered completed once a subject enters a randomly generated code into Mturk which he/she has received at the end of the survey

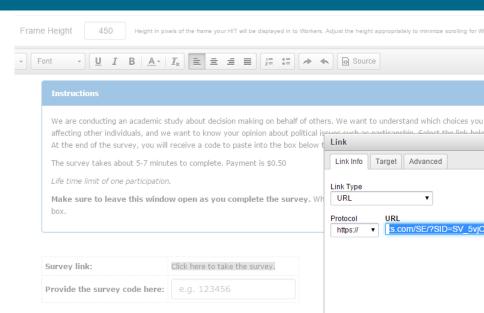
Embedded Mturk Method

The Mturk workers's IDs are passed to Qualtrics via query strings. Data file from Mturk can be manually merged with Qualtrics .csv for payment. Advantage is to rule out false entry and duplicate code.

Dynamic Completion Code

The Mturk workers's IDs are passed to Qualtrics via query strings. Online software such as MturkPrime allows to auto-pay subjects without intervention of the researcher. Mturkprime's core features are

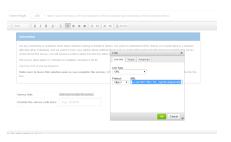
Manual Completion



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Manual Completion



- Under Survey Flow enter embedded data:random=\${rand://int/1000:9999}
- Create custom end of survey message that pipes in random at end of survey
- "Thank you for participating. Your validation code is: \${e://Field/randomMturk}"

DYNAMIC COMPLETION



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SUBJECT SCREENING

- Manual: After each HIT is finished, assign "Qualification" to subjects. Filter subjects by qualification
- Dynamic by Survey:
 - use script in documents to append workerID query to survey link
 - Use embedded data for IDs
 - Use Branch Logic for those IDs that are on a no-participate list
 - At end of Survey append workerID to auto-referral survey link of same survey
- Dynamic by HIT group
 - navigate to https://uniqueturker.myleott.com/
 - retrieve custom html code
 - paste into source of Mturk HIT

